

SHADE STRUCTURE SPECIFICATION

Specifications - Frame-Supported Products

GENERAL: Shade Systems products are designed and manufactured to the most exacting specifications by skilled craftsmen, and certified by Professional Engineers for structural soundness of designs. All Shade Systems are shipped knocked-down, with complete assembly instructions, and ready for easy in-field installation.

MATERIAL: All materials shall be structurally sound and appropriate for safe use. Product durability shall be ensured by the use of corrosion-resistant metals such as stainless steel, and coatings such as zinc-plating, galvanizing, and powder-coating on steel parts, subject to the Project-Specific requirements below. Fabrics used shall include UV-stabilizers and fire retardants for longevity and safety.

WELDMENTS: All tubing members are factory-welded by Certified Welders to American Welding Society (AWS) specifications and to the highest standards of quality workmanship. Weldments are finished with a zinc-rich galvanized coating. No field welding is required in the assembly of Shade Systems products.

POSTS, STRUCTURAL FRAME TUBING, AND HARDWARE: All tubing used shall be cold-formed and milled per ASTM A-135 and ASTM A-500. Material testing is in accordance with ASTM E-8. Minimum yield is 40,000 psi with a minimum tensile strength of 45,000 psi on all posts. All tubing shall be pre-cut to appropriate lengths, and where applicable all outside surfaces shall be galvanized, with an interior corrosion-resistant zinc-rich coating. Where required, support pipes shall be schedule 40 hot-dip galvanized or powder-coated black steel. All fastening hardware shall be stainless steel.

POLYESTER POWDER-COATING PROCESS: All powder-coated parts are completely cleaned and a hot zinc phosphate pretreatment with non-chromic sealer is applied. Powder-coating is then electrostatically applied and oven-cured at 375 to 425 degrees Fahrenheit. Polyester powders shall meet or exceed ASTM standards for Adhesion, Hardness, Impact, Flexibility, Overbake Resistance, and Salt Spray Resistance. Colors shall be specified.

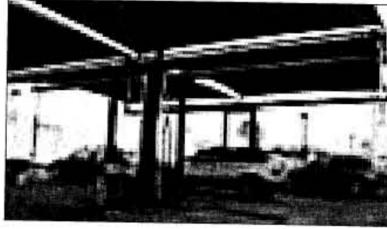
STANDARD FOOTINGS: Footings shall be designed per stringent International Building Code (IBC) for the specific structure. Columns will be provided as standard direct embedment. Other footing designs are available.

ROOFING: Structural frames are designed by Shade Systems only for use with CoolNet™ polyethylene shade fabric. Fabric is attached to frame using a vinyl covered minimum 1/4" diameter stainless steel and clear vinyl coated cable. Cable fasteners are zinc-plated copper for maximum corrosion resistance.

ENGINEERING DATA: Structures are engineered to meet or exceed the requirements of International Building Code (IBC), and the following standards/specifications:

Wind Speed (Frame only):	150 m.p.h.
Wind Speed (Frame w/canopy):	90 m.p.h.
Live Load:	None
Snow Load:	None

Optional designs with greater wind speeds, live loads, and snow loads are available.



SITE LIGHTING SPECIFICATION

COOPER LIGHTING - LUMARK energy

DESCRIPTION

The Lumark Tribute is the most versatile, functionally designed, universally adaptable outdoor luminaire available. The Tribute brings outstanding performance to walkways, parking lots, roadways, loading docks, building areas, and any security lighting application. U.L. listed and CSA certified for wet locations.

Catalog #	MHTR-SL-400-208V-F2	Type	
Project		Date	
Comments		Prepared by	05/21/2013

SPECIFICATION FEATURES

Construction

Rugged one-piece die-cast aluminum housing and door frame. One-piece silicone gasket protects the optical chamber from performance degrading contaminants. One (1) stainless spring latch and two (2) stainless hinges allow toolless opening and removal of door frame.

Reflector

Choice of nine (9) high efficiency optical distributions, including five (5) segmented optical systems constructed of premium 95% reflective oxidized aluminum sheet. Optical segments are rigidly mounted inside a thick gauge aluminum housing for superior protection. All segment faces are clean of rivet heads, tabs or other means of attachment which may cause streaking in the light distribution. Optical modules are

field rotatable in 90° increments and offered standard with mogul base lampholders for High Pressure Sodium and 200-400W Metal Halide assemblies or medium-base lampholders for Metal Halide 150W and below.

Electrical

Ballast and related electrical components are hard mounted to die-cast housing for optimal heat transfer and operating efficiency. Optional swing-down galvanized steel power tray with integral handle and quick disconnects allows tray to be completely removed from housing providing ample room for fixture installation and maintenance.

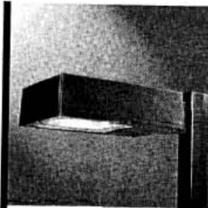
Mounting

Extruded 8" aluminum arm features internal bolt guides for easy positioning of fixture during installation to pole or wall surface.

Standard single carton packaging of housing, square pole arm and round pole adapter allow for consolidated product arrival to site. Optional internal mast arm mount accepts a 1 1/4" to 2 3/8" O.D. horizontal tenon, while a 4-bolt clamping mechanism secures fixture. Cast-in leveling guides provide +/-5° vertical leveling adjustment.

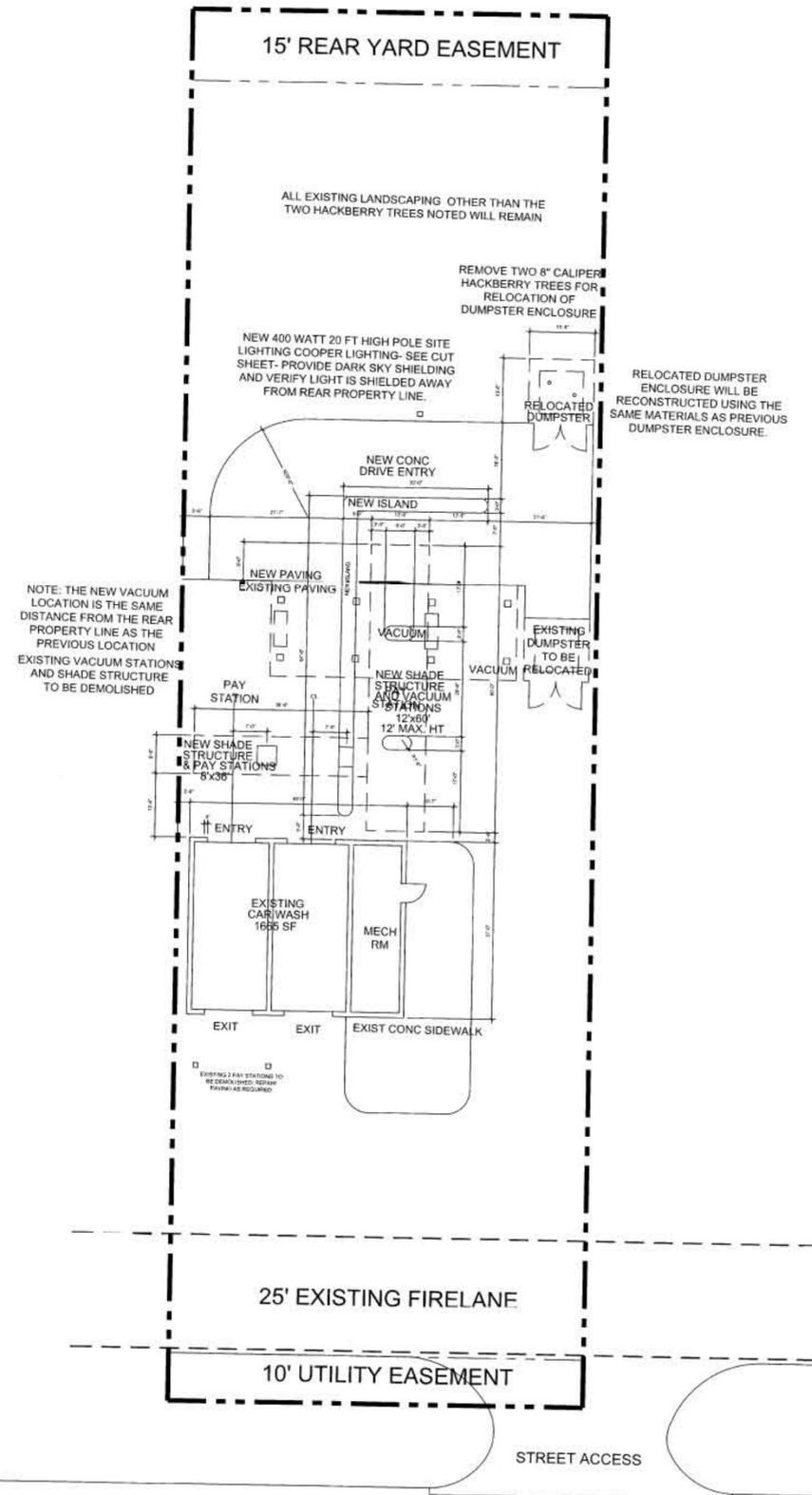
Finish

Housing and arm finished in a 5 stage premium TGIC bronze polyester powder coat paint. Optional colors include black, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.



TR TRIBUTE

70 - 400W
High Pressure Sodium
Pulse Start Metal Halide
Metal Halide
AREA LUMINAIRE



NOTE: THE NEW VACUUM LOCATION IS THE SAME DISTANCE FROM THE REAR PROPERTY LINE AS THE PREVIOUS LOCATION. EXISTING VACUUM STATIONS AND SHADE STRUCTURE TO BE DEMOLISHED.



01 ARCHITECTURAL SITE PLAN
SCALE: 1/16" = 1'-0"

INDUSTRIAL BOULEVARD

CASE NUMBER 13-04-SP

WARD ARCHITECTURE PLLC
609 CHEEK SPARGER ROAD
COLLEEVILLE, TEXAS 76034



LASER WASH OF EULESS
SCOTT & BRENDA BUCHANNAN
622 NORTH INDUSTRIAL BLVD
EULESS, TEXAS 76039

Drawn By	
Checked By	
Project No.	13-19
Issue Date	04-16-2013

Revisions			
No.	Date	Description	

Issue: PERMIT ISSUE 4/16/2013

SITE PLAN

A1.00

Sheet Number